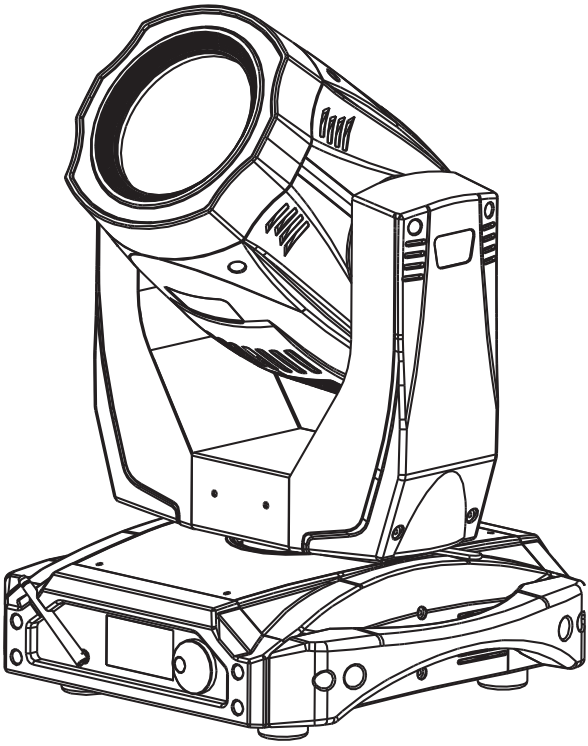
MICROH

Ultra Trinity330

PROFESSIONAL SHOW LIGHTING



USER MANUAL

Please read these user manual carefully before use

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Congratulations on choosing our company product! We thank you for your custom.

◆Please note that this product, as all the others in the rich my company range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

◆Carefully read this user manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.

◆My company disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this user manual, which must always accompany the fitting.

◆My company reserves the right to modify the characteristics stated in this user manual at any time and without prior notice.

SAFETY INFORMATION

• Installation

Make sure all parts for fixing the projector are in a good state of repair.
Make sure the point of anchorage is stable before positioning the projector.
The safety chain must be properly hooked onto the fitting and secured to the framework, so that, if the primary support system fails,the fitting falls as little as possible.
If the safety chain gets used, it needs to be replaced with a genuine spare.

• MINIMUM DISTANCE OF ILLUM INATED OBJECTS

The projector needs to be positioned so that the objects hit by the beam of light are at least 12 metres from the lens of the projector.

• Minimum distance from flammable materials

The projector must be positloned so that any flammable materials are at least 0.2 metres from every point on the surface of the fitting.

• Mounting surfaces

It is permissible to mount the fitting on normally flammable surfaces.

t_a **38**℃

• Maximum ambient temperature

Do not operate the fixture if the ambient temperature (Ta) exceeds 38℃.

•Protection against electrical shock

Connection must be made to a power supply system fitted with efficient earthing (**Class I** appliance according to standard EN 60598-1).
It is,moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

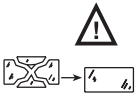
• Connection to mains supply

Connection to the electricity mains must be carried out by a qualified electrical installer.
Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.
This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.
Don't use the power cable when the insulation is damaged.
It must be the manufacturer or distributor or the professional person to change the damaged power cable in order to avoid any dangerous.

t_c **100**℃

• Temperature of the external surface

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 100℃.



• Maintenance

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply. After switching off, do not remove any parts of the fitting, to avoid getting burnt for at least 30 minutes. After this time the likelihood of the lamp exploding is virtually nill.
The fitting is designed to hold in any splinters produced by a lamp exploding. The lenses must be mounted and, if visibly Damaged, they have to be replaced with genuine spares.

• Lamp

The fitting mounts a high-pressure lamp that needs an external igniter. This igniter is fitted onto the apparatus.
-Carefully read the "operating instructions" provided by the lamp manufacturer.
-Immediately replace the lamp if damaged or deformed by heat.

• Battery

This product contains a rechargeable lead-acid battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force.

CE

The products referred to in this manual conform to the European Community Directives to which they are subject:
•Low Voltage 2006/95/CE
•Electromagnetic Compatibility 2004/108/CE

TECHNICAL INFORMATION

●**Power supplies available**

AC90-240V/50-60Hz

●**Power**

440W(220V/50Hz)

●**Lamp**

- Brand:SIRIUS HRI 330W OSRAM
- Power:330W
- Colour temperature:7500K
- Average life 1500h

●**Motors**

12PCS mute sound motor,2PCS three phase motor, 16bit driver.

●**Channels**

Standard 16 control channels

●**Beam angle**

Parallel beam angel 0°~20°

●**Inputs**

DMX 512/WIRELESS DMX 512(Apolegamic)

●**Strobe**

Double lens strobe(0.5-14 times/second)

●**Dimmer**

0-100% linear adjustment

●**Prism**

One bilateral rotation prism

●**Lens**

High presision optical lens

●**Wash effect**

Adjustable wash effects angle

●**Travel**

- PAN = 540°
- TILT = 239°

●**Maximum speeds**

- PAN = 2.6s/540°
- TILT = 1.24s/239°

●**Resolution**

- PAN = 2.11°
- PAN FINE = 0.008°
- TILT = 0.94°
- TILT FINE = 0.004°

●**IP set**

Automatic charging battery,IP could be set without electricity.

●**Features**

Remote control lamp's switch function, display light and lamp's using time, automaticallay adjust cooling-fan's speed, Drop 60W power when strobe lens.

●**IP20 protection rating**

- Protected against the entry of solid bodies larger than 12mm.
- No protection against the entry of liquids.

●**Safety Devices**

- Bipolar circuit breaker with thermal protection.
- Automatic break in power supply in case of overheating or failed operation of cooling system.

●**Cooling**

Forced ventilation with axial fans.

●Structure

Heat-proof plastic+module pressing alloy materials.

●**CE Marking**

- In conformity with the European Union Low Voltage.
- Directive 2006/95/CE and Electromagnetic compatibility Directive 2004/108/CE.

●Two side handles for transportation.

●Device locking PAN and TILT mechanisms for transportation and maintenance.

●**Weights and size**

Box Size:

450x430x530(mm)

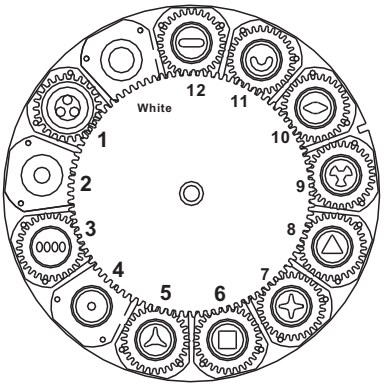
N.W.:18kg G.W.:21.3kg

Flycase Size:

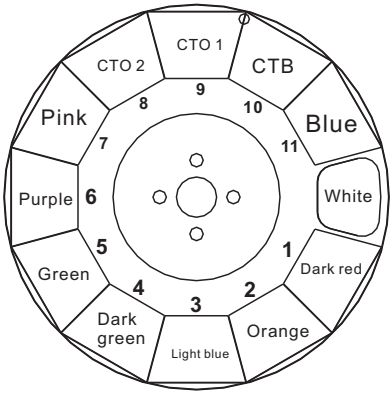
2PCS:900x580x715(mm)

N.W.:36kg G.W.:76kg

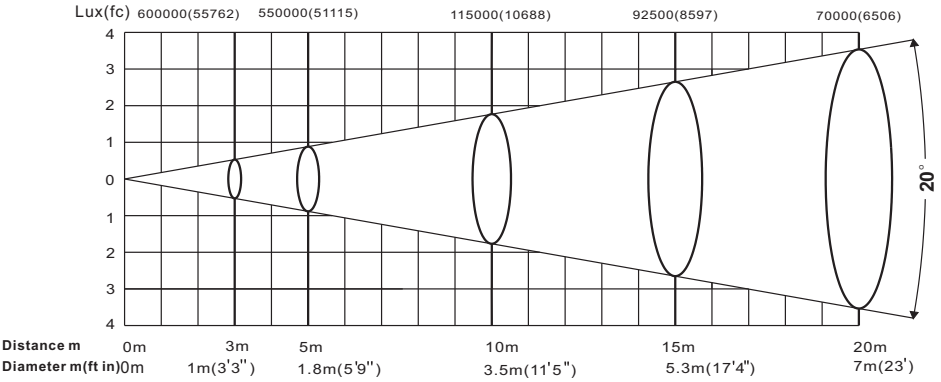
Gobo Wheel(1 white + 12 gobo)
(please refer to the actual material)



Color Wheel:(please refer to the actual material)

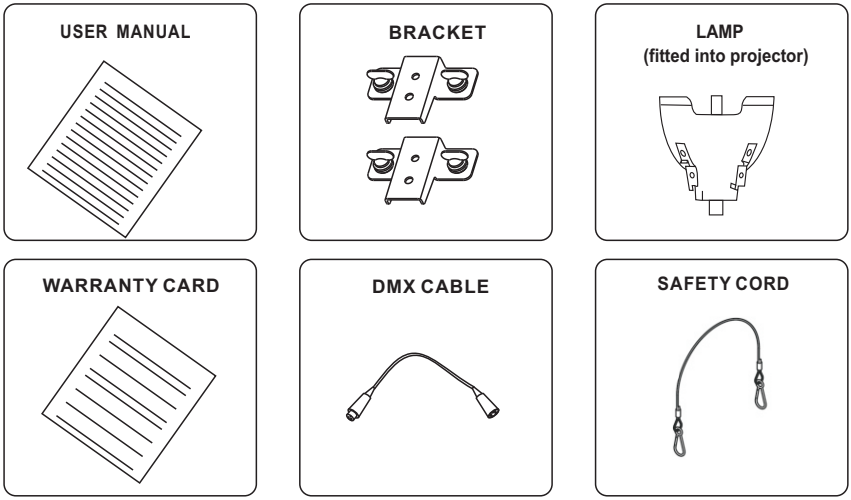


Photometric Date:



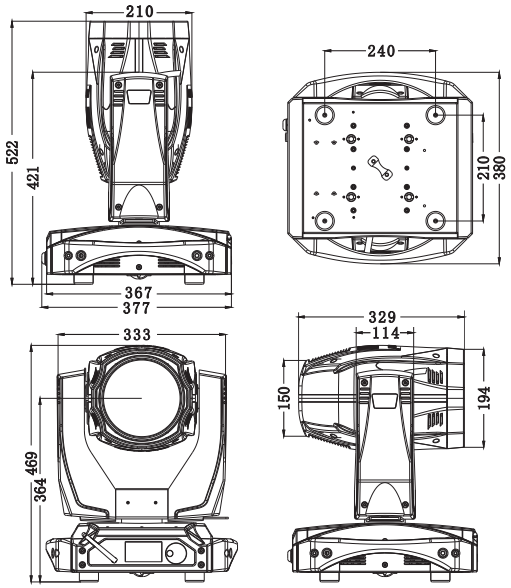
ATTACHMENT AND BODY SIZE

1



Attachmentcontents- Fig. 1

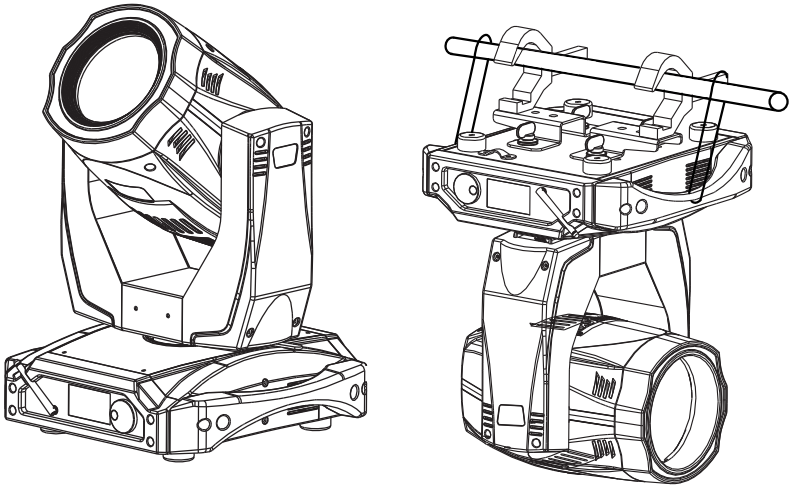
2



Body Size---Fig 2

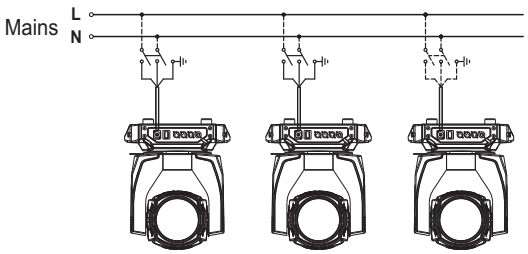
INSTALLATION AND CONNECTING

3

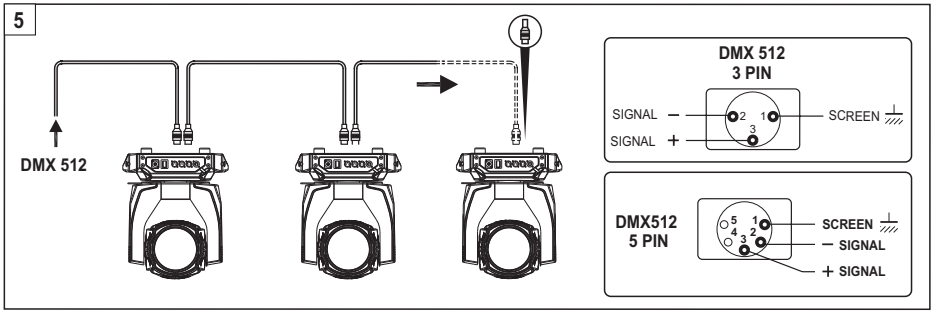


Installing the projector- Fig. 3
The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.
WARNING:with the exception of when the projector is positioned on the floor, the safety cable must be fitted. This must be securely fixed to the support structure of the projector and then connected to the fixing point at the centre of the base.

4



Connecting to the mains suppply ---Fig 4



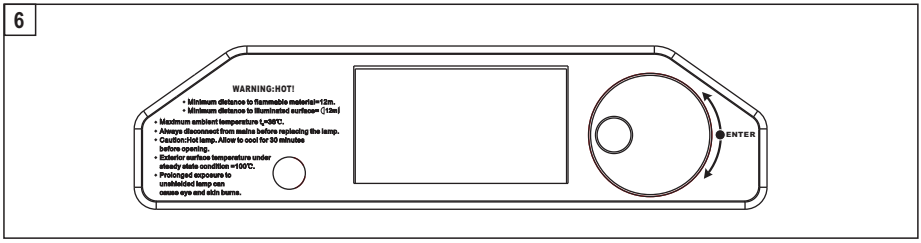
Connecting to the control signal line (DMX) - Fig. 5

◎ Please use the round 3 or 5-pin XLR plugs &sockets offered by menu facture to connect the first projector's output to the second projector' input and connect the second projector's output to the third projector's input. And in the same way for the rest,eventually connect the last projector's output,all the projectors are together.

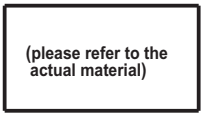
◎The projectors's control signal output or input by using the 3 or 5-pin XLR pug and socket.If need to lengthen the communication cable,please make sure the both side of 3 or 5-pin plug is one to one . (one to one,two to two,three to three).Otherwise,the communication cable will be interrupted.The communicate cable is 2-cord screened cable 75Ω resistance with each core is at least a 0.5mm diameter.(**Caution:**All the inside leading wire of 3 or 5-pin XLR plug couldn't touch each other or plinth).

◎Recommend to use the DMX signal terminator for the installation to avoid the electronic noise dama -ge the digital control signal.Simply speaking,DMX terminator is an XLR connector with a 120Ω 1/2W resistor connected across pin 2 and 3.Which is then plugged into the output socket on the last projec -tor in the chain.Refer to the connection.

CONTROL PANEL

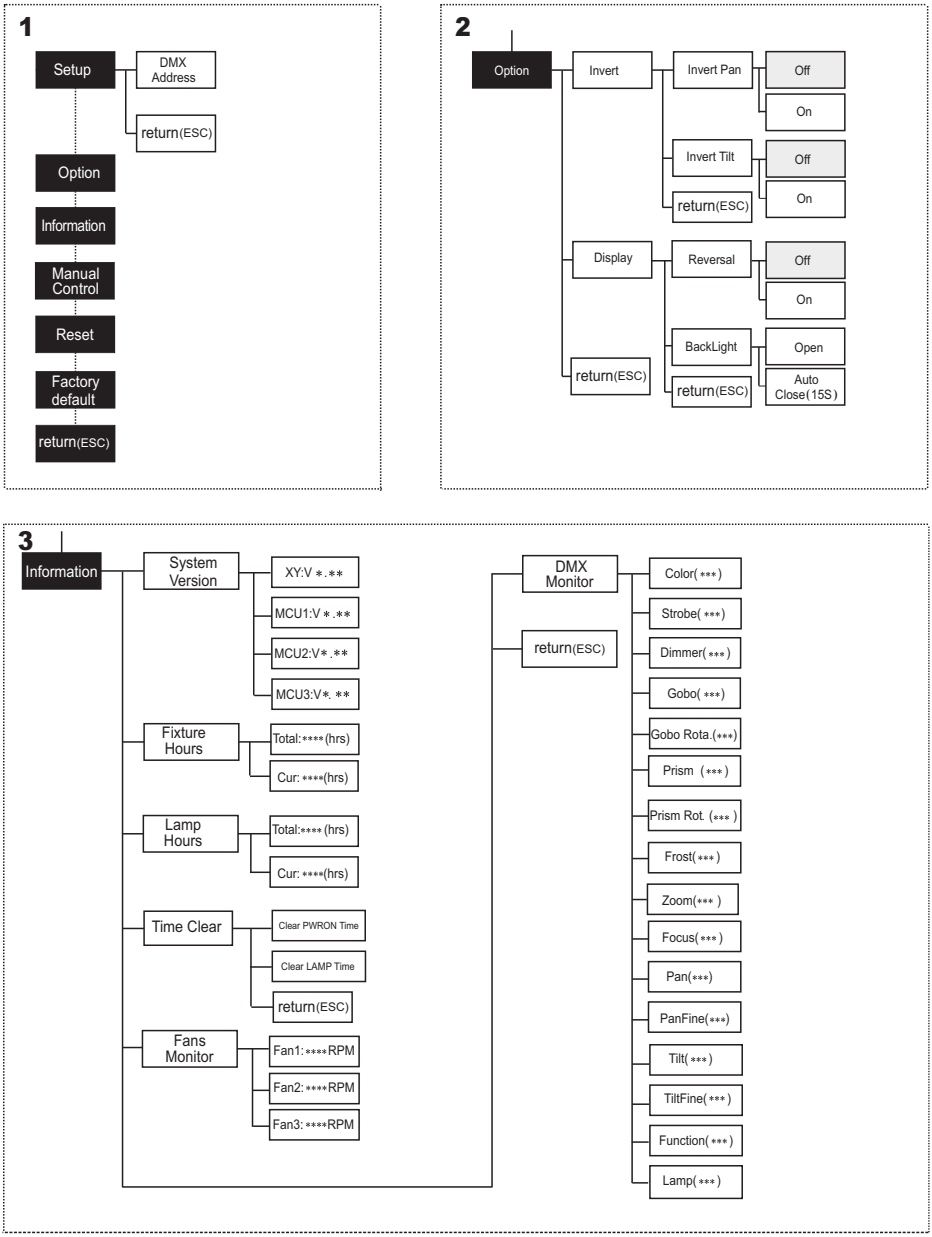

6
WARNING:HOT!
• Minimum distance to flammable material=12m.
• Minimum distance to illuminated surface= (12m)
• Maximum ambient temperature t=35℃.
• Always disconnect from mains before replacing the lamp.
• Caution:Hot lamp. Allow to cool for 30 minutes before opening.
• Exterior surface temperature under steady state condition =100℃.
• Prolonged exposure to unshielded lamp can cause eye and skin burns.
ENTER

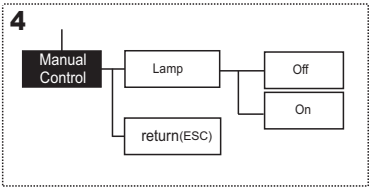
Press the switch. The projector starts resetting the effects. At the same time, the following information scrolls on the display:

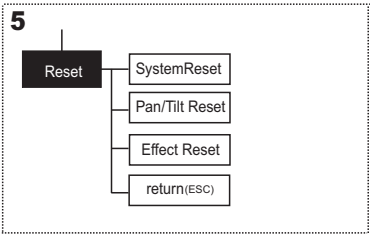


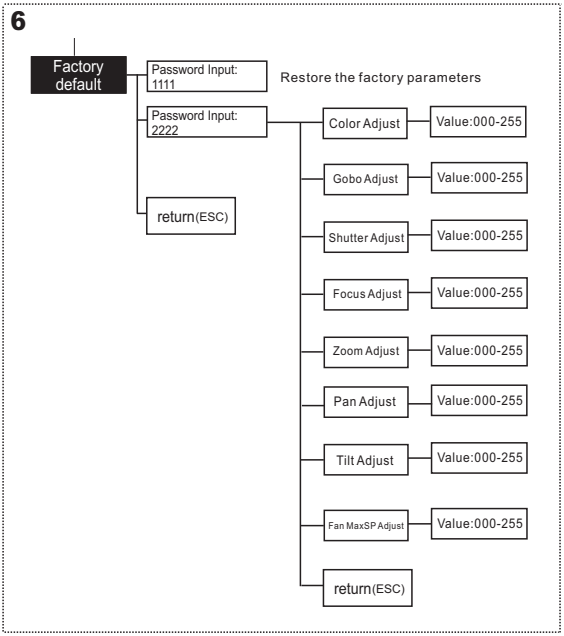
UP ARROWHEAD:Page up or increase;
DOWN ARROWHEAD:Page down or reduce;
ENTER:OK Function
RETURE:Exit (In the choice screen)

MENU SETTING(V1.0)









1. When the dmx signal is fine, it shows " DMX Input OK".

2. When no dmx signal, it shows " DMX Input Fail".

CHANNEL FUNCTION

CHANNEL

CHANNEL	CHANNEL MODE
1	COLOUR WHEEL
2	STOP/STROBE
3	DIMMER
4	STATIC GOBO CHANGE
5	GOBO ROTATION
6	PRISM
7	PRISM ROTATION
8	FROST
9	ZOOM
10	FOCUS
11	PAN
12	PAN FINE
13	TILT
14	TILT FINE
15	FUNCTION
16	LAMP CONTROL

•COLOUR WHEEL - channel 1

BIT	EFFECT
255	FORWARDS ROTATION FROM SLOW TO FAST
128	
123-127	BLUE+WHITE
118-122	BLUE
112-117	CTB+BLUE
107-111	CTB(7200K)
102-106	CTO1+CTB
96-101	CTO1(2700K)
91-95	CTO2 + CTO1
86-90	CTO2
80-85	PINK+CTO2
75-79	PINK
70-74	PURPLE+PINK
64-69	PURPLE
59-63	GREEN+PURPLE
54-58	GREEN
48-53	DARK GREEN+GREEN
43-47	DARK GREEN
38-42	LIGHT BLUE+DARK GREEN
32-37	LIGHT BLUE
27-31	ORANGE+LIGHT BLUE
22-26	ORANGE
16-21	DARK RED+ORANGE
11-15	DARK RED
6-10	WHITE+DARK RED
0-5	WHITE

• STOP/STROBE- channel 2

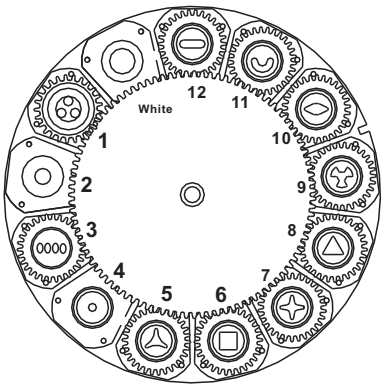
BIT	EFFECT
250 - 255	OPEN
210 - 249	RANDOM STROBE SLOW - FAST
206 - 209	OPEN
181 - 205	RANDOM OPENING PULSE STROBE SLOW - FAST
156 - 180	RANDOM CLOSING PULSE STROBE SLOW - FAST
152 - 155	OPEN
127 - 151	CLOSING PULSE STROBE FROM SLOW TO FAST
126	
102	OPENING PULSE STROBE FROM SLOW TO FAST
98 - 101	OPEN
97	STROBE FAST
8	STROBE SLOW
4 - 7	OPEN
0 - 3	CLOSED

• DIMMER- channel 3

BIT	EFFECT
255	Dimmer intensity from 0% to 100%
1	
0	CLOSED

• STATIC GOBO CHANGE - channel 4

BIT	EFFECT
242-255	GOBO12 SWING SLOW-FAST
227-241	GOBO11 SWING SLOW-FAST
212-226	GOBO10 SWING SLOW-FAST
198-211	GOBO9 SWING SLOW-FAST
183-197	GOBO8 SWING SLOW-FAST
168-182	GOBO7 SWING SLOW-FAST
154-167	GOBO6 SWING SLOW-FAST
139-153	GOBO5 SWING SLOW-FAST
124-138	GOBO4 SWING SLOW-FAST
110-123	GOBO3 SWING SLOW-FAST
95-109	GOBO2 SWING SLOW-FAST
80-94	GOBO1 SWING SLOW-FAST
72-79	WHITE
67-71	GOBO 12
61-66	GOBO 11
56-60	GOBO 10
50-55	GOBO 9
45-49	GOBO 8
39-44	GOBO 7
34-38	GOBO 6
28-33	GOBO 5
23-27	GOBO 4
17-22	GOBO 3
12-16	GOBO 2
6-11	GOBO 1
0-5	WHITE



GOBO ROTATION–channel 5

BIT	EFFECT
240-255	SWING FROM SLOW TO FAST (360°)
224-239	SWING FROM SLOW TO FAST(180°)
208-223	SWING FROM SLOW TO FAST(120°)
192-207	SWING FROM SLOW TO FAST(60°)
128-191	FORWARDS ROTATION FROM SLOW TO FAST
64-127	BACKWARDS ROTATION FROM FAST TO SLOW
0-63	ANGLE ADJUSTMENT (ORIENTATION)

• PRISM - channel 6

BIT	EFFECT
130 - 255	PRISM INSERTED
0 - 129	PRISM EXCLUDED

• PRISM ROTATION - channel 7

BIT	EFFECT
240-255	SWING FROM SLOW TO FAST(360°)
224-239	SWING FROM SLOW TO FAST(180°)
208-223	SWING FROM SLOW TO FAST(120°)
192-207	SWING FROM SLOW TO FAST(60°)
129-191	BACKWARDS ROTATION FROM SLOW TO FAST
127-128	STOP
64-126	FORWARDS ROTATION FROM FAST TO SLOW
0-63	ROTATION(0-360°) ORIENTATION

• FROST-channel 8

BIT	EFFECT
255	FROST
0	

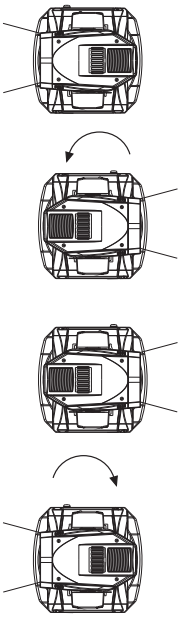
• ZOOM-channel 9

BIT	EFFECT
255	Zoom from Max. to Min. beam angle
0	

• FOCUS–channel 10

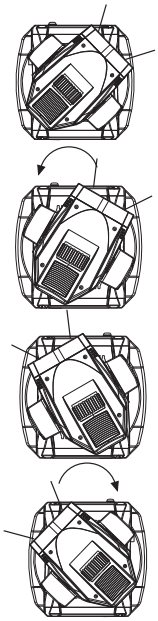
BIT	EFFECT
255	NEAR
0	DISTANT

• PAN-channel 11



BIT	EFFECT
255	540°
0	

• PAN FINE-channel 12

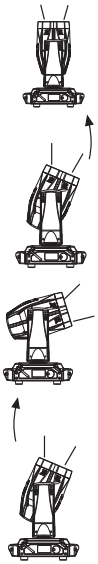


BIT	EFFECT
255	
0	

• TILT- channel 13

BIT	EFFECT
255	
	239°
0	

• TILT FINE- channel 14



BIT	EFFECT
255	
0	

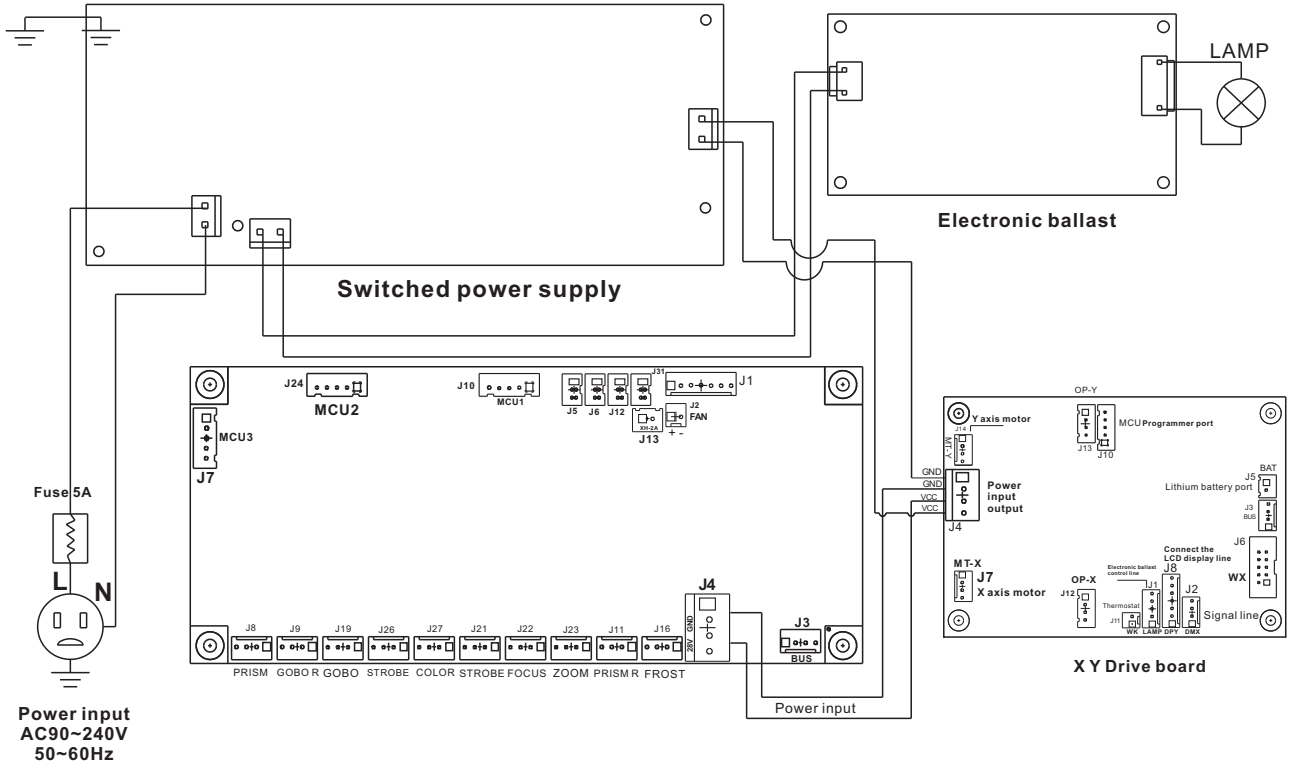
•FUNCTION- channel 15

BIT	EFFECT
212-255	UNUSED RANGE
206-211	COMPLETE RESET(5S)
199-205	ALL MOTOR OF HEAD RESET(5S)
192-198	FROST MOTOR RESET(5S)
185-191	FOCUS AND ZOOM MOTOR RESET(5S)
178-184	PRISM MOTOR RESET(5S)
171-177	COLOUR MOTOR RESET(5S)
164-170	GOGO MOTOR RESET(5S)
157-163	STROBE MOTOR RESET(5S)
146-156	UNUSED RANGE
135-145	LCD POSITIVE(5S)
124-134	LCD REVERSE(5S)
113-123	LCD TURN OFF(5S)
102-112	LCD TURN ON(5S)
91-101	UNUSED RANGE
80-90	GOBO,COLOUR, PRISM,FROST, HEAD FUNCTION CHANGEING BLACKOUT
69-79	XY,GOBO, COLOUR,PRISM,FROST CHANGING BLACKOUT
58-68	FROST SELECTING BLACKOUT
47-57	PRISM SELECTING BLACKOUT
36-46	COLOUR CHANGING BLACKOUT
25-35	GOGO CHANGING BLACKOUT
14-24	XY MOVING BLACKOUT
0-13	UNUSED RANGE

•LAMP CONTROL - channel 16

BIT	EFFECT
224-255	LAMP ON(5S)
192-223	UNUSED RANGE
160-191	LAMP OFF(5S)
64-159	UNUSED RANGE
32-63	LAMP REDUCING POWER (INSTANT ACTION)
0-31	UNUSED RANGE

Circuit connecting diagram



CLEANING AND MAINTENANCES

- In order to ensure the projector could work normally.It should be kept clean always .It is recommended that the fans and ventilation in let should be cleaned every 15 days.The lens and dichroic colour filters should also be reg -ularly cleaned to maintain an optimum light output.Do not use any type of solvent on dichroic colour filters.It will damage the projector.
- Suggestion:The continue usage of the light don't exceed 4 hours.Or it will shorter the usage of the lamp.Please use the alternative operation to solve this problems.
- Please disconnect the power supply when begin to maintenaceor takedown the light.Please let the parts cool down 10 minute at least then begin to install.If need to replace the lamp,please wait 10 minute again at least to let the lamp cool down completely or which maybe burned down.
- Please inspect the lens or other moving parts timing and keep them clear and static.If find anything damaged or losseness,must change a lamp or fix the lamp in order to avoid the accident.
- The light use the strong cool system. It is easy for the dirty to be collected .Please do clear the hot-sak one time two week at least.
- After you use the light,please check the intake place whether there are some wastepaper,please clean it up,or the windmill will break down and causing fire.

TROUBESHOOTING

It is recommended some solution for some normal trouble shooting.Any unsolutioned problems should always be handle by the professional person.Disconnect the power supply before maintenance the light.

■**Lamp off**:

- Please check if install the suitable lamp.
- Please check the connection of the power supply or switch is ok.
- Please check whether the lamp will reach the end of their life can explode ,please replace a same description lamp.
- Please measure if the power supply is enough.
- Please check if the operation is correct.Please wait 30 minutes at least till the lamp cool down enough,then could the connect the power supply,which could be normal work.
- Please check whether the DMX 512 controller pass the "turn on" order.
- Please check the connection of the trigger circuit is loose contact.
- Please check whether the connected point of the trigger point is loose contact ,faster the connect cable .
- Check menu INFORMATION → FANS MONITOR → FAN1,FAN2,FAN3, Whether the fan speed in 500RPM above, below 500RPM the lamp does not light, replace with the specifications of the fan.
- Please check if the switch of the temperature is damaged.
- Check the bottom box driver board "WK" socket if the resistance 0 between the two line.

■**The light beam is dark,not inhomogeneou:**

- When the lamp is to the usage life,the light is not enough,please change a new one for the same description .
- Please check the reflector parts is dirty.Keep them clear.
- Please measure if the power supply is enough.
- Small adjusting is suitable for change height or screw system till get a ideal light beam.
- TO enter the menu FANCTORY DEFAULT input 2222 enter the COLOR and GOBO regulation, until the optical center.

■The light shadow is fogging:

◎Please check the data on the DMX 512 controller is suitable for the electric focus.

◎Please check the machenical parts is jamging.After cleaning,please add some temperature -durable juice.

■The light works interruptly:

◎Please check if the fan works normally or mote clogging.

◎Please check whether the abstract heat have the mote clogging.

◎Please check if the lamp is to the usage life.

◎Please check if the power supply is enough,the connection of the power supply or the circuit are good.

◎Please check if the switch of the sup-temperature is good.

■Though the light is lighting,but it couldn't accept the control order:

◎Please check the start code address and the function option are correct.

◎Please check whether the communicate control cable is ongood connection or the cable is too long or interrupt.

◎Please check the control system is not valid,check the singal amplifier of chain connected is valid.

◎Please check whether the communicate cable is too long or the other equipment is mutually conjugate.

◎Please arrange the wire well ,,Shorter the signal cable ,put the high voltage cable and low voltage cable separ -ately .

◎Add the signal amplify isolator.

◎Signal cable is used the excellent screening doublet (Resistance 75 Ω)

◎The end of the light end and the end resistance.

◎When the lamp don't cool down enough but do the incorrect operation will let the trigger up to super- high voltage leak.It will damage the electric circuit and communicate IC or CPU .Under this condition,please change the PCB board.

■the light can't move:

◎Please check if the power supply is suitable for the light voltage data.

◎Please check the fuse of input voltage is defective.

◎Please check the light if they are deformating,inside parts is broken,become wet...etc will lead the loose contact.

◎Please check if the inside lead wire and the connector is loose.

◎Please check the electric parts (such as the switch,transformer,ballast,electric capacity,piezoresistor, filter, PCB board,controller to motor) is short-circuit or burn down.

■Part of the projector couldn't be responsled to the controlling order:

◎Please check the order is correct to the moving.

◎Please check the mechanicalpart is deformation or loose.

◎Please check the function to the motor socket is loose or drive chip is burn down.

◎Please check the wire of the motor is cut at zig point.

◎Please check these function to the motor is damaged.

■On working,the pan &tilt couldn't work normally:

◎Please check according to the above step by step.

◎Please check the belt of the X.Y is broken.

◎Please check the X/Y direction data to the receiver is damage.

◎Re-projector reset.

DUTY EXONERATIVE AND COPYRIGHT PROTECTION

◇The lamp belongs to consumption products that is not guarantee to keep it in good repair.

◇Any products broken that didn't according to the instruction is not guarantee to keep it in good repair.

◇The commentary for all the instruction belongs to the supplier in final.

◇No authorize can't copy.

◇The information in this manual may be changed in the future,the company reserve the right to change the data without any advise.